

POWER PLANT IN-HOUSE TRAINING 2013

Module 1. Health & Safety Concern



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Safety Management

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Management

- Different types of Manager
 - *Production*
 - *Finance*
 - *Sales*
 - *Marketing*
 - *Environmental*
 - *Personnel*
 - *Training*
 - *Safety*
 - *Quality*
 - *Departmental*
- Question: How many have a specific statute law covering the position?

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SAFETY

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Safety Management

- The six objectives of Safety Management are:
 - 1) A way to gain support from all levels of the organisation.
 - 2) To motivate, educate and train.
 - 3) To control hazardous processes or materials.
 - 4) To operate an inspection programme.
 - 5) To devise and implement risk controls.
 - 6) To comply with legal duties.

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Safety Management

- The five key elements of Safety Management are:
 - 1) Policy.
 - 2) Organising.
 - 3) Planning & implementing.
 - 4) Monitoring.
 - 5) Reviewing and auditing.

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Safety Management

The Safety Policy.

- ⊙ **Statement.**
 - Document outlining the company's commitment/philosophy to Health & Safety.
- ⊙ **Organisation.**
 - A 'family tree' detailing the responsibilities at each level of the operation.
- ⊙ **Arrangements.**
 - How Health & Safety will be managed (IN DETAIL).

ALL REQUIRED BY LAW.

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Organising.

- Involvement, commitment & participation at all levels must be maintained.
 - Board level.
 - Senior Management.
 - Middle Management.
 - Supervision.
 - Shop-floor.
- Encourage co-operation.
 - Employees.
 - Safety Representatives.
 - ROES.

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Organising.

- Secure effective Communication Channels.
 - Employees to Supervisors.
 - Supervisors to Middle Management.
 - Middle Management to Senior Management.
 - Employees to Senior Management.
- Assess skills required for the task and instruct as necessary.
 - Specific training.
 - General training.
 - Group.
 - Individual.

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Planning & Implementing.

- Identify relevant and attainable objectives and targets.
- Set performance standards for Management, and risk control - legal requirement as an absolute minimum.
- Consider risks to employees and others. Control the risks.
- Document performance standards.

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Monitoring.

There are two ways to monitor the system.

▪ Actively

Making sure that set standards are implemented and that Management Controls are effective.

- Periodic Inspections
- Spot-checks
- Intended to highlight problem areas before things go wrong, to allow necessary changes to be made

▪ Re-actively

Collecting and analysing information after an incident/ accident.

- Accident investigation
- Near miss investigation
- Intended to highlight why an incident happened to enable remedial measures to be implemented.
- Learning from mistakes.

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Monitoring.

~ The information gathered from active and re-active monitoring systems must be used to.

- ~ Identify high risk or problem areas.
- ~ Prioritise any remedial measures.

Then disseminate that information to everybody within the organisation who it may affect.

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Reviewing & Auditing.

- **Periodic reviews and audits of the system must be carried out.**
 - **Full audit of all safety systems of the organisation.**
 - **Ensure that current standards are as close as possible to the standards laid down during planning and implementing.**
 - **Gather information as to whether or not the initial strategy is working or whether this should be changed to achieve the desired objectives.**

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Risk Assessment – Why?

“ To prevent accidents by identifying hazards and reducing the risk of injury from those hazards to as low a level as is reasonably practicable.”

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Definition of an Accident

An unplanned, unexpected event that can result in injury or damage.

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Definition of a Hazard

“Something with the potential to cause harm.”

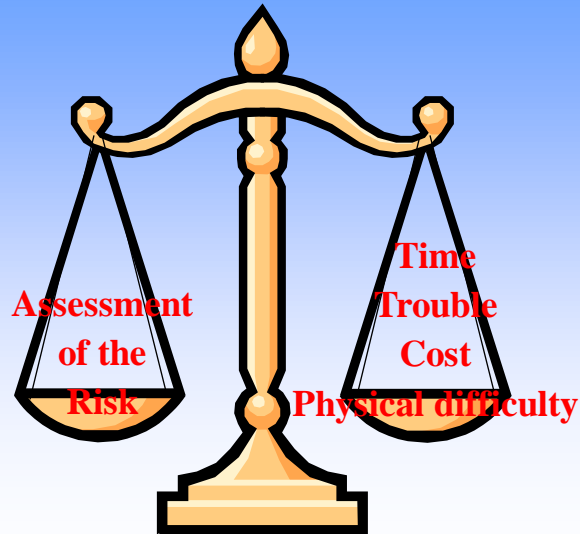
Definition of a Risk

“The likelihood that the harm will be realised and, for the purpose of Risk Assessment, the severity of the harm”

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Reasonably Practicable



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Risk Assessment

- Consider the task or processes.
- Identify the hazards.
- Identify who is at risk.
- Analyse and evaluate the risk against the severity.
- Decide on control measures.
- Implement the control measures.
- Monitor the control measures.
- Review the process.

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Who is at Risk?

- **Employees.**
 - Directly carrying out the task.
 - Other employees working near the task being assessed.
 - Cleaning and maintenance staff.
 - Sex.
 - Age.
 - Health.
 - Special circumstances (e.g. Pregnancy).

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Who is at Risk?

- **Visitors**
 - **Invited**
 - Customers
 - Emergency services
 - Delivery drivers
 - **Uninvited**
 - Trespassers
 - Burglars
- ◆ **Contractors.**
 - Cleaners
 - Maintenance
- ◆ **Others**
 - ◆ **Members of the public**
 - ◆ Passers by
 - ◆ Neighbours

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Risk Ratings

Likelihood ↓	Severity →	Slightly harmful	Harmful	Extremely harmful
Highly unlikely		Trivial	Tolerable	Moderate
Unlikely		Tolerable	Moderate	Substantial
Likely		Moderate	Substantial	Intolerable

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Control Measures

- Remember - E.R.I.C.

Eliminate the hazard.

Reduce the hazard or change it for a safer alternative.

Isolate the hazard from personnel

Control the hazard

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Control Measures

- Safe person controls
 - Protective devices
 - Safe systems of work
 - Personal protective equipment
 - Permits to work
 - Training
 - Instruction
 - Supervision
 - Signs
 - Method statements

Definition of Safe

- • *Adj.* From Latin *salvus* 'uninjured.'
- **1 a** free of danger or injury. **b** out of or not exposed to danger.
- **On the safe side.**
- With a margin of security against risks.

◆ **A condition where all the risks have been reduced to as low a level as is reasonably practicable.**



Thank You.....